WPIC/1880/DED-1664-69

MENOPASEDM FOR:	Director, National Photographic Interpretation Center	
SULICIT:		25X1
	for en	25X′

- L. This memorandum requests approval for the commitment of additional funds for an existing contract. The specific request is stated in Paragraph 7.
- R. Under this contract NPIC is developing a prototype instrument, which, through a system of optical and mechanical switching, will allow a P.I. to view various combinations of film chips from up to four different recommaissance missions or sensors. The different comparison techniques evaluable include three stereo (mechanical alternating stereo, electrical alternating, stereo, and split field stereo) and five non-stereo (split field mono, superimposition, Mask Edge Scanning, flicker, and color comparison). The detection of significant target changes will be enhanced with these comparison techniques, plus optical adjustments of magnification, anamorphic correction, and image rotation in the Image Comparison Microstereoscope (ICM).
- paths. Subsequently, the images are displayed bisccularly in various combinations, and rapid switching between the four optical paths is inherent in the design. The Development Objectives and the Design Plan of this instrument require stage indicators visible to the operator in the field-of-view so that he can rapidly differentiate between the four images thereby permitting him to know, at all times, which of the stages he is viewing. The design selected called for a pattern of one, two, three, and four dots -- each of which are engraved or photo-deposited on a glass plate sid-way in the optical system at an intermediate image plane. It was hoped that these dots could be displayed in color to better differentiate between the images being successively (or in combination) displayed to the P.I.
- b. Decause of the compact design of this instrument, illumination of the indicator plates is provided by the high intensity lamps beneath

25X1

25X1

25X1

SUBJECT:	Request for Approval of Change-in-Scope in Contract Tange Comparison Microstereoscope	25X1 25X1
indicator plat black. Further anamorphic and indicator plat to the zero po where in the p indicators vil	is With these light sources transmitting light through the les, any color used for the indicator dots would appear errors, angineering restraints, requiring the placement of image rotation prisms between the eyepieces and the les, mean that the indicator dots must automatically adjust ever plane of the anamorphs and can, therefore, fall any-periphery of each field. Consequently, the dot pattern is be difficult to pick out against the background of var- and white imagery on the four stages.	
to discrete di 0.5 - 1.0m in the specific h visibility and analysis indic individual pla in the outer	to change the design of the stage indicator "engraving igits: 1, 2, 3, and 4. Each digit will be approximately height. Engineering analysis will be required to determine height, width, specing, and line weight necessary for optimus interference with the imagery. However, preliminal sates that the engravings (or photo depositions) on the four stee will be designed so that all of the digits will fall the anamorphs.	B A
discrete digit	estimates the additional effort to finalize the edraw the engineering drawings, and engrave or deposit the is on each plate will cost more than presently budgeted attern design. This figure includes engineering labor,	25X1
has been offer with IRO and ?	labor, overhead, GAA, and target award fee. Coordination sted informally by the Project Officer, SSO/28D. Overall project coordination will continue with the Center elements.	25X1
	requested that approval be granted to pay form FT-1969 R&D funds for the above described change- hase II of the Image Comparison Microstereoscope development.	25X1 •
	Chief, Technical Services & Support Group	25X1

2

Approved For Release 2003/12/19 : CIA-RDP78B05171A000800070039-3

25X1

25X1

25X1

	Request for Approvel	of Change-in	-Scone in Contra
	imge Comparison Mi		for #2
APPROTED!			
Rat.	ARTIGR C. LUNDARL Director onal Motographic Interpre	Anti-	Pate
Attachments:		CONTRACTOR CARGE	
?. Let	alog Yorm ter icle Changes - Cost Analys	_	
Distribution:	American - Cont Wistins	1.4	
Original - : 1 - : 1 - :	EFIC/1880/CAFS (After Appr FFIC/CBLr GFIC/1883 GFIC/188G/CAFS GFIC/188G/DED	oval) #/atts	
WPIC/TSSG/DED/	'SRB	(16 JUNE 69)	(02017)